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Lt. General J. D. O'Connell Chief Signal Officer Department of the Army Washington 25, D. C.

Bear Jimmy:

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CONFIDENTIAL

December 23, 1958

## TECHNICAL GUIDELINES

## PHOTOGALVANIC CELL RESEARCH

- l. These technical guidelines cover research investigations on photographic cell systems such as  $Ag/FeCl_3$ ,  $aq_0/Pt_rAg_0$ . These investigations shall include:
- a. The study of the reactions occurring in photogalvanic cell systems and the evaluation of the potentialities of those systems for the efficient conversion of solar and nuclear energy into electronic energy.
- b. Investigations into the mechanisms of the electrode reactions, their rates as a function of the intensity of the incident radiation and their spectral sensitivity.
- e. Studies of the electrode potentials and their dependence upon light intensity, wavelength, current drain and other operating conditions.
- do Exploration of other photochemical, radiochemical and sumplementary electrochemical reactions and sentual selection of the most suitable photom and nuclear—galvanic electrodes resulting from these investigations.
- c. The use of these electrodes in the construction of experimental cells and the subsequent testing of the cells with respect to their electrical characteristics under various operational conditions.
- 2. The Contractor shall conduct other pertinent studies as mutually agreed upon by the Contractor and the Contracting Officer or his authorized representatives.

Prepared by the Power Sources Division, U.S.A. Rignal Research and Development Laboratories Fort Momouth, New Jersey

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